

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:57

INPUT SET: S36725.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

6

1 SEQUENCE LISTING
2
3 (1) General Information:
4
5 (i) APPLICANT:
6 (A) NAME: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS
7 REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH
8 AND HUMAN SERVICES
9 (B) STREET: BOX OTT
10 (C) CITY: BETHESDA
11 (D) STATE OR PROVINCE: MARYLAND
12 (E) COUNTRY: UNITED STATES OF AMERICA
13 (F) POSTAL CODE: 20892

ENTERED

RECEIVED

MAR 04 2002

TECH CENTER 1600/2900

14
15 (i) APPLICANT:
16 (A) NAME: PAVLAKIS, GEORGE N.
17 (B) STREET: 9 PURDUE COURT
18 (C) CITY: ROCKVILLE
19 (D) STATE OR PROVINCE: MARYLAND
20 (E) COUNTRY: UNITED STATES OF AMERICA
21 (F) POSTAL CODE: 20850

22
23 (i) APPLICANT:
24 (A) NAME: FELBER, BARBARA K.
25 (B) STREET: 9 PURDUE COURT
26 (C) CITY: ROCKVILLE
27 (D) STATE OR PROVINCE: MARYLAND
28 (E) COUNTRY: UNITED STATES OF AMERICA
29 (F) POSTAL CODE: 20850

30
31 (ii) TITLE OF INVENTION: METHOD OF ELIMINATING
32 INHIBITORY/INSTABILITY REGIONS OF mRNA

33
34 (iii) NUMBER OF SEQUENCES: 130

35
36 (iv) CORRESPONDENCE ADDRESS:
37 (A) ADDRESSEE: MORGAN & FINNEGAN
38 (B) STREET: 345 PARK AVENUE
39 (C) CITY: NEW YORK
40 (D) STATE: NEW YORK
41 (E) COUNTRY: USA
42 (F) ZIP: 10154

43
44 (v) COMPUTER READABLE FORM:
45 (A) MEDIUM TYPE: FLOPPY DISK
46 (B) COMPUTER: IBM PC COMPATIBLE

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:58

INPUT SET: S36725.raw

47 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
48 (D) SOFTWARE: WORDPERFECT 5.1
49
50 (vi) CURRENT APPLICATION DATA:
51 (A) APPLICATION NUMBER: 09/943,722
52 (B) FILING DATE:
53 (C) CLASSIFICATION:
54
55 (vii) PRIOR APPLICATION DATA:
56 (A) APPLICATION NUMBER: 08/850,049
57 (B) FILING DATE:
58
59 (vii) PRIOR APPLICATION DATA:
60 (A) APPLICATION NUMBER: US 08/050,478
61 (B) FILING DATE: 26-OCT-1994
62 (C) CLASSIFICATION:
63
64 (vii) PRIOR APPLICATION DATA:
65 (A) APPLICATION NUMBER: PCT/US93/02908
66 (B) FILING DATE: 29-MAR-1993
67 (C) CLASSIFICATION:
68
69 (vii) PRIOR APPLICATION DATA:
70 (A) APPLICATION NUMBER: US 07/858,747
71 (B) FILING DATE: 27-MAR-1992
72 (C) CLASSIFICATION:
73
74 (viii) ATTORNEY/AGENT INFORMATION:
75 (A) NAME: MORRY, MARY J
76
77
78
79
80
81
82
83
84
85
86 (B) REGISTRATION NUMBER: 34,398
87 (C) REFERENCE/DOCKET NUMBER: 2026-4006US1
88
89 (ix) TELECOMMUNICATION INFORMATION:
90 (A) TELEPHONE: (212)758-4800
91 (B) TELEFAX: (212) 751-6849
92
93 (2) INFORMATION FOR SEQ ID NO: 1:
94
95 (i) SEQUENCE CHARACTERISTICS:
96 (A) LENGTH: 396 BASE PAIRS
97 (B) TYPE: NUCLEIC ACID
98 (C) STRANDEDNESS: SINGLE
99 (D) TOPOLOGY: LINEAR

INPUT SET: S36725.raw

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101 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 1:
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103 ATGGGTGCGA GAGCGTCAGT ATTAAGCGGG GGAGAATTAG ATCGATGGGA AAAAATTGG 60
104
105 TTAAGGCCAG GGGGAAAGAA AAAATATAAA TAAACACATA TAGTATGGC AAGCAGGGAG 120
106
107 CTAGAACGAT TCGCAGTTAA TCCTGGCCTG TTAGAACAT CAGAAGGCTG TAGACAAATA 180
108
109 CTGGGACAGC TACAACCATC CCTTCAGACA GGATCAGAAG AACTTAGATC ATTATATAAT 240
110
111 ACAGTAGCAA CCCTCTATTG TGTGCATCAA AGGATAGAGA TAAAAGACAC CAAGGAAGCT 300
112
113 TTAGACAAGA TAGAGGAAGA GCAAAACAAA AGTAAGAAAA AAGCACAGCA AGCAGCAGCT 360
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115 GACACAGGAC ACAGCAATCA GGTCAGCCAA AATTAC 396
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118 (2) INFORMATION FOR SEQ ID NO: 2:
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120 (i) SEQUENCE CHARACTERISTICS:
121 (A) LENGTH: 51 BASE PAIRS
122 (B) TYPE: NUCLEIC ACID
123 (C) STRANDEDNESS: SINGLE
124 (D) TOPOLOGY: LINEAR
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126 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 2:
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128 CCAGGGGAA AGAAAAAATA TAAATTAAAA CATATAGTAT GGGCAAGCAG G 51
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130
131 (2) INFORMATION FOR SEQ ID NO: 3:
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133 (i) SEQUENCE CHARACTERISTICS:
134 (A) LENGTH: 48 BASE PAIRS
135 (B) TYPE: NUCLEIC ACID
136 (C) STRANDEDNESS: SINGLE
137 (D) TOPOLOGY: LINEAR
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139 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 3:
140
141 CCTTCAGACA GGATCAGAAG AACTTAGATC ATTATATAAT ACAGTAGC 48
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143
144 (2) INFORMATION FOR SEQ ID NO: 4:
145
146 (i) SEQUENCE CHARACTERISTICS:
147 (A) LENGTH: 50 BASE PAIRS
148 (B) TYPE: NUCLEIC ACID
149 (C) STRANDEDNESS: SINGLE
150 (D) TOPOLOGY: LINEAR
151
152 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 4:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:58

INPUT SET: S36725.raw

153
154 ACCCTCTATT GTGTGCATCA AAGGATAGAG ATAAAAGACA CCAAGGAAGC 50
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156
157
158
159
160
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162
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164
165
166 (2) INFORMATION FOR SEQ ID NO: 5:
167 (i) SEQUENCE CHARACTERISTICS:
168 (A) LENGTH: 50 BASE PAIRS
169 (B) TYPE: NUCLEIC ACID
170 (C) STRANDEDNESS: SINGLE
171 (D) TOPOLOGY: LINEAR
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173 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
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175 GAGCAAAACA AAAGTAAGAA AAAAGCACAG CAAGCAGCAG CTGACACAGG 50
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178 (2) INFORMATION FOR SEQ ID NO: 6:
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180 (i) SEQUENCE CHARACTERISTICS:
181 (A) LENGTH: 51 BASE PAIRS
182 (B) TYPE: NUCLEIC ACID
183 (C) STRANDEDNESS: SINGLE
184 (D) TOPOLOGY: LINEAR
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186 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
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188 CCAGGGGGAA AGAAGAAGTA CAAGCTAAAG CACATCGTAT GGGCAAGCAG G 51
189
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191 (2) INFORMATION FOR SEQ ID NO: 7:
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193 (i) SEQUENCE CHARACTERISTICS:
194 (A) LENGTH: 48 BASE PAIRS
195 (B) TYPE: NUCLEIC ACID
196 (C) STRANDEDNESS: SINGLE
197 (D) TOPOLOGY: LINEAR
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199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
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201 CCTTCAGACA GGATCAGAGG AGCTTCGATC ACTATACAAAC ACAGTAGC 48
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203
204 (2) INFORMATION FOR SEQ ID NO: 8:
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:19:59

INPUT SET: S36725.raw

206 (i) SEQUENCE CHARACTERISTICS:
207 (A) LENGTH: 50 BASE PAIRS
208 (B) TYPE: NUCLEIC ACID
209 (C) STRANDEDNESS: SINGLE
210 (D) TOPOLOGY: LINEAR
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212 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
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214 ACCCTCTATT GTGTGCACCA GCGGATCGAG ATCAAGGACA CCAAGGAAGC 50
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217 (2) INFORMATION FOR SEQ ID NO: 9:
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219 (i) SEQUENCE CHARACTERISTICS:
220 (A) LENGTH: 50 BASE PAIRS
221 (B) TYPE: NUCLEIC ACID
222 (C) STRANDEDNESS: SINGLE
223 (D) TOPOLOGY: LINEAR
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225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
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227 GAGCAAAACA AGTCCAAGAA GAAGGCCAG CAGGCAGCAG CTGACACAGG 50
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230 (2) INFORMATION FOR SEQ ID NO: 10:
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232 (i) SEQUENCE CHARACTERISTICS:
233 (A) LENGTH: 68 BASE PAIRS
234 (B) TYPE: NUCLEIC ACID
235 (C) STRANDEDNESS: SINGLE
236 (D) TOPOLOGY: LINEA
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238
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240
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244
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248 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
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250 GAATAGTGCT GTTAACCTCC TGAACGCTAC CGCTATCGCC GTGGCGGAAG GAACCGACAG 60
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252 GGTTATAG 68
253
254
255 (2) INFORMATION FOR SEQ ID NO: 11:
256
257 (i) SEQUENCE CHARACTERISTICS:
258 (A) LENGTH: 62 BASE PAIRS

INPUT SET: S36725.raw

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: THE GOVERNMENT OF THE UNITED STA
9	Unknown or Misplaced Identifier	(B) STREET: BOX OTT
10	Unknown or Misplaced Identifier	(C) CITY: BETHESDA
11	Unknown or Misplaced Identifier	(D) STATE OR PROVINCE: MARYLAND
12	Unknown or Misplaced Identifier	(E) COUNTRY: UNITED STATES OF AMERICA
13	Unknown or Misplaced Identifier	(F) POSTAL CODE: 20892
15	Mandatory Value Not Present	(i) APPLICANT:
16	Unknown or Misplaced Identifier	(A) NAME: PAVLAKIS, GEORGE N.
17	Unknown or Misplaced Identifier	(B) STREET: 9 PURDUE COURT
18	Unknown or Misplaced Identifier	(C) CITY: ROCKVILLE
19	Unknown or Misplaced Identifier	(D) STATE OR PROVINCE: MARYLAND
20	Unknown or Misplaced Identifier	(E) COUNTRY: UNITED STATES OF AMERICA
21	Unknown or Misplaced Identifier	(F) POSTAL CODE: 20850
23	Mandatory Value Not Present	(i) APPLICANT:
24	Unknown or Misplaced Identifier	(A) NAME: FELBER, BARBARA K.
25	Unknown or Misplaced Identifier	(B) STREET: 9 PURDUE COURT
26	Unknown or Misplaced Identifier	(C) CITY: ROCKVILLE
27	Unknown or Misplaced Identifier	(D) STATE OR PROVINCE: MARYLAND
28	Unknown or Misplaced Identifier	(E) COUNTRY: UNITED STATES OF AMERICA
29	Unknown or Misplaced Identifier	(F) POSTAL CODE: 20850

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/09/943,722

DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

<< THERE ARE NO ITEMS MISSING >>

INPUT SET: S36725.raw

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118	(3) INFORMATION FOR SEQ ID NO: 2:	(2) INFORMATION FOR SEQ ID NO: 2:
126	(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 2:	(xi) SEQUENCE DESCRIPTION:SEQ ID NO: 2:
131	(4) INFORMATION FOR SEQ ID NO: 3:	(2) INFORMATION FOR SEQ ID NO: 3:
139	(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 3:	(xi) SEQUENCE DESCRIPTION:SEQ ID NO: 3:
144	(5) INFORMATION FOR SEQ ID NO: 4:	(2) INFORMATION FOR SEQ ID NO: 4:
152	(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 4:	(xi) SEQUENCE DESCRIPTION:SEQ ID NO: 4:
166	(6) INFORMATION FOR SEQ ID NO: 5:	(2) INFORMATION FOR SEQ ID NO: 5:
173	(xi) SEQUENCE DESCRIPTIONS:SEQ ID NO: 5:	(xi) SEQUENCE DESCRIPTION:SEQ ID NO: 5:
178	(7) INFORMATION FOR SEQ ID NO: 6:	(2) INFORMATION FOR SEQ ID NO: 6:
191	(8) INFORMATION FOR SEQ ID NO: 7:	(2) INFORMATION FOR SEQ ID NO: 7:
204	(9) INFORMATION FOR SEQ ID NO: 8:	(2) INFORMATION FOR SEQ ID NO: 8:
217	(10) INFORMATION FOR SEQ ID NO: 9:	(2) INFORMATION FOR SEQ ID NO: 9:
230	(11) INFORMATION FOR SEQ ID NO: 10:	(2) INFORMATION FOR SEQ ID NO: 10:
255	(12) INFORMATION FOR SEQ ID NO: 11:	(2) INFORMATION FOR SEQ ID NO: 11:
270	(13) INFORMATION FOR SEQ ID NO: 12:	(2) INFORMATION FOR SEQ ID NO: 12:
283	(14) INFORMATION FOR SEQ ID NO: 13:	(2) INFORMATION FOR SEQ ID NO: 13:
296	(15) INFORMATION FOR SEQ ID NO: 14:	(2) INFORMATION FOR SEQ ID NO: 14:
311	(16) INFORMATION FOR SEQ ID NO: 15:	(2) INFORMATION FOR SEQ ID NO: 15:
334	(17) INFORMATION FOR SEQ ID NO: 16:	(2) INFORMATION FOR SEQ ID NO: 16:
347	(18) INFORMATION FOR SEQ ID NO: 17:	(2) INFORMATION FOR SEQ ID NO: 17:
360	(19) INFORMATION FOR SEQ ID NO: 18:	(2) INFORMATION FOR SEQ ID NO: 18:
373	(20) INFORMATION FOR SEQ ID NO: 19:	(2) INFORMATION FOR SEQ ID NO: 19:
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421	(23) INFORMATION FOR SEQ ID NO: 22:	(2) INFORMATION FOR SEQ ID NO: 22:
434	(24) INFORMATION FOR SEQ ID NO: 23:	(2) INFORMATION FOR SEQ ID NO: 23:
447	(25) INFORMATION FOR SEQ ID NO: 24:	(2) INFORMATION FOR SEQ ID NO: 24:
460	(26) INFORMATION FOR SEQ ID NO: 25:	(2) INFORMATION FOR SEQ ID NO: 25:
473	(27) INFORMATION FOR SEQ ID NO: 26:	(2) INFORMATION FOR SEQ ID NO: 26:
496	(28) INFORMATION FOR SEQ ID NO: 27:	(2) INFORMATION FOR SEQ ID NO: 27:
509	(29) INFORMATION FOR SEQ ID NO: 28:	(2) INFORMATION FOR SEQ ID NO: 28:
522	(30) INFORMATION FOR SEQ ID NO: 29:	(2) INFORMATION FOR SEQ ID NO: 29:
535	(31) INFORMATION FOR SEQ ID NO: 30:	(2) INFORMATION FOR SEQ ID NO: 30:
548	(32) INFORMATION FOR SEQ ID NO: 31:	(2) INFORMATION FOR SEQ ID NO: 31:
570	(33) INFORMATION FOR SEQ ID NO: 32:	(2) INFORMATION FOR SEQ ID NO: 32:
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596	(35) INFORMATION FOR SEQ ID NO: 34:	(2) INFORMATION FOR SEQ ID NO: 34:
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671	(40) INFORMATION FOR SEQ ID NO: 39:	(2) INFORMATION FOR SEQ ID NO: 39:
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697	(42) INFORMATION FOR SEQ ID NO: 41:	(2) INFORMATION FOR SEQ ID NO: 41:
710	(43) INFORMATION FOR SEQ ID NO: 42:	(2) INFORMATION FOR SEQ ID NO: 42:
733	(44) INFORMATION FOR SEQ ID NO: 43:	(2) INFORMATION FOR SEQ ID NO: 43:
746	(45) INFORMATION FOR SEQ ID NO: 44:	(2) INFORMATION FOR SEQ ID NO: 44:

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

Line	Original Text	Corrected Text
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798	(49) INFORMATION FOR SEQ ID NO: 48:	(2) INFORMATION FOR SEQ ID NO: 48:
821	(50) INFORMATION FOR SEQ ID NO: 49:	(2) INFORMATION FOR SEQ ID NO: 49:
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860	(53) INFORMATION FOR SEQ ID NO: 52:	(2) INFORMATION FOR SEQ ID NO: 52:
873	(54) INFORMATION FOR SEQ ID NO: 53:	(2) INFORMATION FOR SEQ ID NO: 53:
895	(55) INFORMATION FOR SEQ ID NO: 54:	(2) INFORMATION FOR SEQ ID NO: 54:
908	(56) INFORMATION FOR SEQ ID NO: 55:	(2) INFORMATION FOR SEQ ID NO: 55:
921	(57) INFORMATION FOR SEQ ID NO: 56:	(2) INFORMATION FOR SEQ ID NO: 56:
934	(58) INFORMATION FOR SEQ ID NO: 57:	(2) INFORMATION FOR SEQ ID NO: 57:
947	(59) INFORMATION FOR SEQ ID NO: 58:	(2) INFORMATION FOR SEQ ID NO: 58:
960	(60) INFORMATION FOR SEQ ID NO: 59:	(2) INFORMATION FOR SEQ ID NO: 59:
962	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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996	(62) INFORMATION FOR SEQ ID NO: 61:	(2) INFORMATION FOR SEQ ID NO: 61:
1009	(63) INFORMATION FOR SEQ ID NO: 62:	(2) INFORMATION FOR SEQ ID NO: 62:
1022	(64) INFORMATION FOR SEQ ID NO: 63:	(2) INFORMATION FOR SEQ ID NO: 63:
1035	(65) INFORMATION FOR SEQ ID NO: 64:	(2) INFORMATION FOR SEQ ID NO: 64:
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1112	(70) INFORMATION FOR SEQ ID NO: 69:	(2) INFORMATION FOR SEQ ID NO: 69:
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1351	(86) INFORMATION FOR SEQ ID NO: 85:	(2) INFORMATION FOR SEQ ID NO: 85:
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1366	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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1400	(89) INFORMATION FOR SEQ ID NO: 88:	(2) INFORMATION FOR SEQ ID NO: 88:
1413	(90) INFORMATION FOR SEQ ID NO: 89:	(2) INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/09/943,722DATE: 02/22/2002
TIME: 02:20:05

INPUT SET: S36725.raw

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1488	(95) INFORMATION FOR SEQ ID NO: 94:	(2) INFORMATION FOR SEQ ID NO: 94:
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1575	(101) INFORMATION FOR SEQ ID NO: 100:	(2) INFORMATION FOR SEQ ID NO: 100:
1588	(102) INFORMATION FOR SEQ ID NO: 101:	(2) INFORMATION FOR SEQ ID NO: 101:
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1649	(106) INFORMATION FOR SEQ ID NO: 105:	(2) INFORMATION FOR SEQ ID NO: 105:
1662	(107) INFORMATION FOR SEQ ID NO: 106:	(2) INFORMATION FOR SEQ ID NO: 106:
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1688	(109) INFORMATION FOR SEQ ID NO: 108:	(2) INFORMATION FOR SEQ ID NO: 108:
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1825	(118) INFORMATION FOR SEQ ID NO: 117:	(2) INFORMATION FOR SEQ ID NO: 117:
1838	(119) INFORMATION FOR SEQ ID NO: 118:	(2) INFORMATION FOR SEQ ID NO: 118:
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1873	(121) INFORMATION FOR SEQ ID NO: 120:	(2) INFORMATION FOR SEQ ID NO: 120:
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1899	(123) INFORMATION FOR SEQ ID NO: 122:	(2) INFORMATION FOR SEQ ID NO: 122:
1912	(124) INFORMATION FOR SEQ ID NO: 123:	(2) INFORMATION FOR SEQ ID NO: 123:
1925	(125) INFORMATION FOR SEQ ID NO: 124:	(2) INFORMATION FOR SEQ ID NO: 124:
1948	(126) INFORMATION FOR SEQ ID NO: 125:	(2) INFORMATION FOR SEQ ID NO: 125:
1960	(127) INFORMATION FOR SEQ ID NO: 126:	(2) INFORMATION FOR SEQ ID NO: 126:
1973	(128) INFORMATION FOR SEQ ID NO: 127:	(2) INFORMATION FOR SEQ ID NO: 127:
2002	(129) INFORMATION FOR SEQ ID NO: 128:	(2) INFORMATION FOR SEQ ID NO: 128:
2293	(130) INFORMATION FOR SEQ ID NO: 129:	(2) INFORMATION FOR SEQ ID NO: 129:
2641	(131) INFORMATION FOR SEQ ID NO: 130:	(2) INFORMATION FOR SEQ ID NO: 130:
2648	(ii) MOLECULAR TYPE: PROTEIN	(ii) MOLECULE TYPE: PROTEIN
2650	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130: